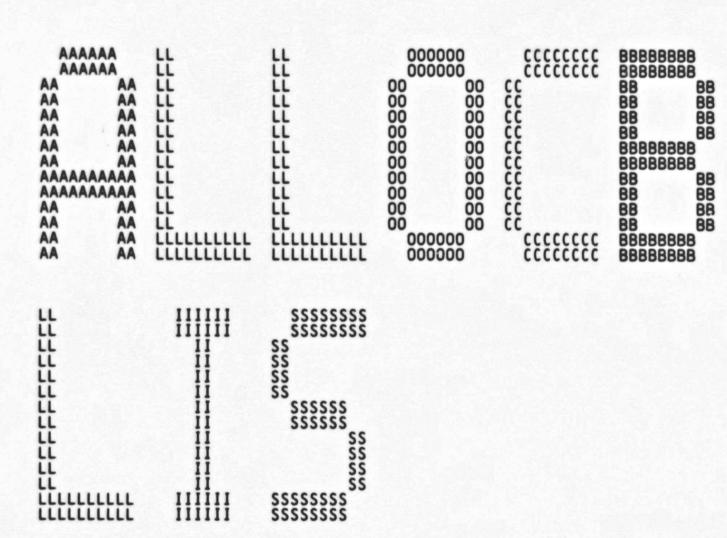
MMM MMM MMM	MMM TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT		AAAAAAAA AAAAAAAA		AAAAAAA AAAAAAA AAAAAAA		CCCCCCCCCC PPPPPPPPPPPPPPPPPPPPPPPPPPP		P
MMMMM		TTT	AAA	AAA	AAA	AAA	CCC	PPP	PPP
MMMMM		TTT	AAA	AAA	AAA	AAA	CCC	PPP	PPP
MMMMM		TTT	AAA	AAA	AAA	AAA	CCC	PPP	PPP
MMM	MMM MMM	TTT	AAA	AAA	AAA	AAA	CCC	PPP	PPP
MMM	MMM MMM	TTT	AAA	AAA	AAA	AAA	CCC	PPP	PPP
MMM	MMM MMM	TTT	AAA	AAA	AAA	AAA	ČČČ	PPP	PPP
MMM	MMM	TTT	AAA	AAA	AAA	AAA	ČČČ	PPPPPPPPPPP	
MMM	MMM	TTT	AAA	AAA	AAA	AAA	ČČČ	PPPPPPPPPP	
MMM	MMM	TTT	AAA	AAA	AAA	AAA	ČČČ	PPPPPPPPPPP	
MMM	MMM	TTT	AAAAAA	AAAAAAA		AAAAAAAA	ČČČ	PPP	
MMM	MMM	TTT	AAAAAA	AAAAAAA		AAAAAAAA	ČČČ	PPP	
MMM	MMM	TTT		AAAAAAA		AAAAAAAA	ččč	PPP	
MMM	MMM	TTT	AAA	AAA	AAA	AAA	ČČČ	PPP	
MMM	MMM	TTT	AAA	AAA	AAA	AAA	ČČČ	PPP	
MMP	MMM	TTT	AAA	AAA	AAA	AAA	ČČČ	PPP	
MMM	MMM	TIT	AAA	AAA	AAA	AAA	CCCCCCCCCC	PPP	
MMM	MMM	ŤŤŤ	AAA	AAA	AAA	AAA	2222222222	PPP	
MMM	MMM	ttt	AAA	AAA	AAA	AAA	2222222222	PPP	

::::

::::



B

45 67

48901234567

16-SEP-1984 02:02:23 VAX/VMS Macro V04-00 5-SEP-1984 02:10:22 [MTAACP.SRCJALLOCB.MAR;1

Page (1)

.TITLE ALLOCB - ALLOCATE DYNAMIC MEMORY

F 12

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facility: mtaacp

Abstract:

these routines allocate and deallocate system non-paged dynamic memory for acp control blocks.

Environment:

starlet operating system, including privileged system services and internal exec routines. note that this routine must be called in kernel mode.

Author: Andrew C. Goldstein, Creation Date: 14-DEC-1976 16:25 Modified By:

V02-002 REFORMAT R Schaefer 23-Jul-1980 15:53 Reformat the source.

Include Files:

Page

(1)

B

Equated Symbols: arg list offsets BYTES = 4 ADDRESS = 4 ; byte count desired ; address of block being deallocated ; define system ipl names
; define processor register names
; define resource names
; define window block format
; used only for tags to the block type
; and size fields SIPLDEF SPRDEF **SRSNDEF SWCBDEF** .PSECT \$LOCKEDC1\$, NOWRT, LONG Own Storage:

G 12

.ALIGN 2

MOVL

JSB BRB

get appropriate resource code

and wait for pool to appear

and process pcb address

; and wait f

00000000 9F

00000000 9F

B

B

ALLOCB VO4-000

Page

```
13390123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456
                                Deallocates the indicated block of memory back to the system pool of non-paged dynamic memory.
          DEALLOCATE:
         Calling sequence:
CALL DEALLOCATE (ARG1)
         Input Parameters:
ARG1: address of block being deallocated
          Implicit Inputs:
                   none
         Output Parameters:
                   none
         Implicit Outputs:
                   none
         Routine Value:
                   none
         Side Effects:
                   block deallocated
      DEALLOCATE ::
                   . WORD
```

003C 00 3C ^M<R2,R3,R4,R5>
ADDRESS(AP),R0
WCB\$W_SIZE(R0),R1
#IPL\$_SYNCH,R2
a#EXE\$DEANONPAGED
#0 MOVL MOVZWL DSBINT 00000000'9F 16 JSB ENBINT RET

.END

save registers
get address of block
get block size
raise ipl to synchronize
and deallocate thru exec
restore ipl

BIP

P

I CPSPSPCA

1215

T

3

T

The working set limit was 1200 pages.
13510 bytes (27 pages) of virtual memory were used to buffer the intermediate code.
There were 10 pages of symbol table space allocated to hold 201 non-local and 2 local symbols.
359 source lines were read in Pass 1, producing 13 object records in Pass 2.
20 pages of virtual memory were used to define 18 macros.

K 12

ALLOCB VAX-11 Macro Run Statistics

- ALLOCATE DYNAMIC MEMORY

16-SEP-1984 02:02:23 VAX/VMS Macro V04-00 5-SEP-1984 02:10:22 [MTAACP.SRC]ALLOCB.MAR;1

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! Macro library statistics !

Macro library name

Macros defined

\$255\$DUA28:[SYS.OBJ]LIB.MLB;1
\$255\$DUA28:[SYSLIB]STARLET.MLB;2
TOTALS (all libraries)

540

277 GETS were required to define 9 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$:ALLOCB/OBJ=OBJ\$:ALLOCB MSRC\$:MTADEF1/UPDATE=(ENH\$:MTADEF1)+MSRC\$:ALLOCB/UPDATE=(ENH\$:ALLOCB)+EXECML\$/LIB

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0253 AH-BT13A-SE

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